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PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

A1/2/A

In Re Application of:

Muthiah Manoharan, Phillip Dan Cook and
Clarence Frank Bennett

Serial No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: Herewith

Examiner: Not Yet Assigned

For: DERIVATIZED OLIGONUCLEOTIDES HAVING IMPROVED UPTAKE AND
OTHER PROPERTIES

Assistant Commissioner for Patents
Washington, DC 20231

Sir:

PRELIMINARY AMENDMENT

Prior to examination of the above-identified application, Applicants
respectfully request that the following amendments be entered.

In the Claims:

Please ADD the following new Claims 45 through 53.

--45. A method of effecting cellular uptake of a compound having a plurality
of linked nucleosides, comprising contacting an organism with said compound wherein said
compound includes at least one heterocyclic base functionalized nucleoside having a steroid
molecule, an enzyme, a peptide, a protein, or a vitamin, linked to the heterocyclic base of the
nucleoside.

46. The method of claim 45 wherein said heterocyclic base functionalized
nucleoside is functionalized with a steroid molecule.